



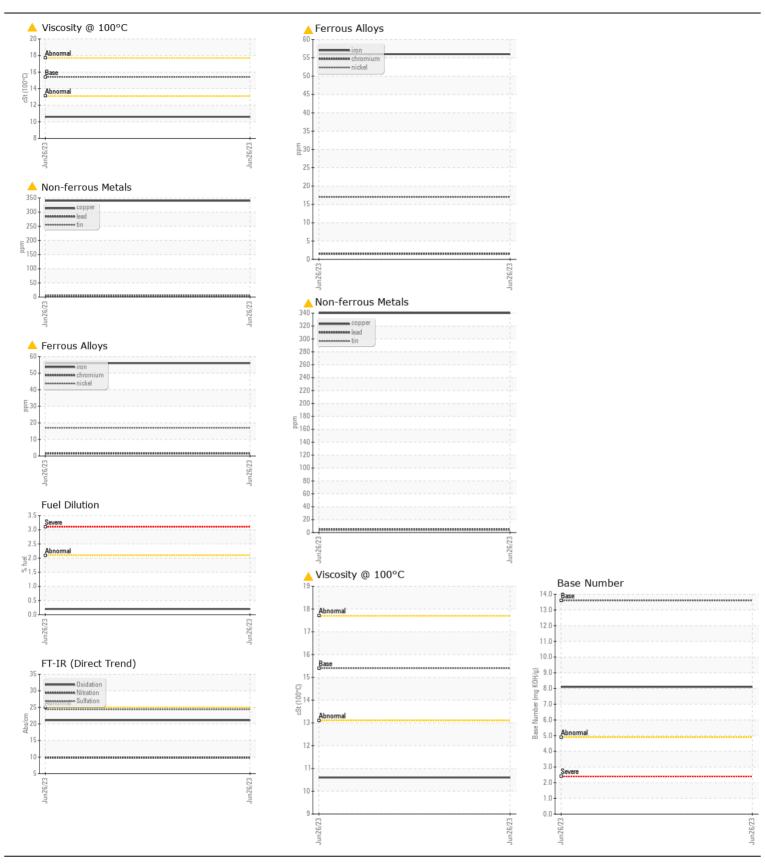
WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL** NORMAL **ABNORMAL**

Store 9 - Marietta

JOHN DEERE 250G 1FF250GXANF611974

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		LEC0043265		
	Sample Date		Client Info		26 Jun 2023		
	Machine Age	hrs	Client Info		408		
	Oil Age	hrs	Client Info		408		
	Filter Age	hrs	Client Info		408		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>51	56		
Copper and nickel ppm levels are abnormal. Exhaust valve wear is indicated. Bearing wear is indicated.	Chromium	ppm	ASTM D5185m	>11	2		
	Nickel	ppm	ASTM D5185m		1 7		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m	>31	10		
	Lead	ppm	ASTM D5185m	>26	4		
	Copper	ppm	ASTM D5185m	>26	4 340		
	Tin	ppm	ASTM D5185m	>4	4		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	15		
	Potassium	ppm	ASTM D5185m	>20	4		
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>2.1	0.2		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.4		
	Nitration	Abs/cm	*ASTM D7624	>20	9.8		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.4		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.21	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	9		
The BN result indicates that there is suitable alkalinity remaining in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate.	Boron	ppm	ASTM D5185m		260		
	Barium	ppm	ASTM D5185m		4		
	Molybdenum	ppm	ASTM D5185m		269		
	Manganese	ppm	ASTM D5185m		8		
	Magnesium	ppm	ASTM D5185m		919		
	Calcium	ppm	ASTM D5185m		1616		
	Phosphorus	ppm	ASTM D5185m		922		
	Zinc	ppm	ASTM D5185m		1148		
	Sulfur	ppm	ASTM D5185m		3434		
	Oxidation	Abs/.1mm	*ASTM D7414		21.1		
	Base Number (BN)	0 0			8.1		
	Visc @ 100°C	cSt	ASTM D445	15.4	10.6		







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 05885504

: LEC0043265

Received **Tested** Unique Number: 10535987

: 30 Jun 2023 Diagnosed : 30 Jun 2023 - Angela Borella

: 28 Jun 2023

Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

LESLIE EQUIPMENT COMPANY

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